## **Current Status of All Claims in the Application:**

1. (Currently Amended) A guide assembly for reducing lateral movement of a storage tape in a tape drive, the guide assembly comprising:

a rotatable first roller including a perimeter surface, a circumference, a longitudinal axis and a groove disposed into the perimeter surface, the groove having a groove length in a directly substantially along the circumference, and a groove bottom that is substantially linear in a direction along the groove length that is less than the circumference.

- 2. (Original) The guide assembly of claim 1 wherein the first roller includes a plurality of spaced-apart grooves, each of the grooves having a groove length that is less than the circumference.
- 3. (Original) The guide assembly of claim 2 wherein the grooves are aligned substantially parallel to the circumference.
- 4. (Original) The guide assembly of claim 3 wherein the grooves are semirandomly distributed on the perimeter surface.
- 5. (Original) The guide assembly of claim 2 wherein the groove length for at least one of the grooves is between approximately 0.1 percent (0.1%) and ninety percent (90%) of the circumference.
- 6. (Original) The guide assembly of claim 2 wherein the groove length for at least one of the grooves is between approximately one percent (1%) and fifty percent (50%) of the circumference.
- 7. (Original) The guide assembly of claim 2 wherein the groove length of at least one of the grooves is between approximately 0.01 inches and 1.5 inches.

- 8. (Original) The guide assembly of claim 2 wherein the percentage of the perimeter surface onto which grooves are disposed is in the range of between approximately one percent (1%) and forty percent (40%).
- 9. (Original) The guide assembly of claim 2 wherein the percentage of the perimeter surface onto which grooves are disposed is in the range of between approximately one percent (1%) and twenty-five percent (25%).
- 10. (Original) The guide assembly of claim 1 further including a roller mount, wherein the roller is rotatably mounted on the roller mount approximately on at least a portion of the longitudinal axis of the first roller.
- 11. (Original) The guide assembly of claim 1 wherein at least one of the grooves has a groove depth that varies between approximately zero inches and 0.02 inches along the length of each groove.
- 12. (Original) The guide assembly of claim 1 further comprising a second roller including a perimeter surface, a circumference, a longitudinal axis and a groove disposed into the perimeter surface, the groove having a groove length that is less than the circumference.
- 13. (Original) A tape drive including the guide assembly of claim 1, a take-up reel and a head assembly.
- 14. (Currently Amended) A guide assembly for reducing lateral movement of a magnetic tape in a tape drive, the guide assembly comprising:
  - a first roller including a perimeter surface, a circumference, a longitudinal axis and a <u>plurality of discontinuous grooves</u> groove disposed into the perimeter

surface, <u>one of</u> the <u>groove</u> <u>grooves</u> having a groove depth that varies <u>in a</u> <u>direction</u> along the <u>a</u> length of the groove.

- 15. (Currently Amended) The guide assembly of claim 14 wherein the first roller includes a plurality of spaced apart grooves, each of the grooves having has a groove depth that varies along the length of the groove.
- 16. (Original) The guide assembly of claim 15 wherein the groove length of at least one of the grooves is between approximately 0.1 percent (0.1%) and ninety percent (90%) of the circumference.
- 17. (Original) The guide assembly of claim 15 wherein the groove length of at least one of the grooves is between approximately one percent (1%) and fifty percent (50%) of the circumference.
- 18. (Original) The guide assembly of claim 15 wherein the percentage of the perimeter surface onto which grooves are disposed is in the range of between one percent (1%) and forty percent (40%).
- 19. (Original) The guide assembly of claim 15 wherein the percentage of the perimeter surface onto which grooves are disposed is in the range of between one percent (1%) and twenty-five percent (25%).
- 20. (Original) The guide assembly of claim 15 wherein each of the grooves is aligned substantially parallel to the circumference.
- 21. (Original) The guide assembly of claim 15 wherein the grooves are semirandomly distributed on the perimeter surface.

- 22. (Original) The guide assembly of claim 14 further comprising a second roller including a perimeter surface, a circumference, a longitudinal axis and a groove disposed into the perimeter surface, the groove having a groove depth that varies along the length of the groove.
- 23. (Original) The guide assembly of claim 14 wherein the groove depth varies between approximately zero inches and 0.05 inches.
- 24. (Original) A tape drive including the guide assembly of claim 14 and a take-up reel and a head assembly.
- 25. (Original) A guide assembly for reducing lateral movement of a magnetic tape of a tape drive, the guide assembly comprising:

a first roller having a perimeter surface, a circumference and a plurality of spaced-apart discontinuous grooves disposed into the perimeter surface, each groove being positioned substantially parallel to the circumference of the roller, each groove having (i) a groove depth that varies between approximately zero inches and 0.02 inches, (ii) a groove length of between approximately 0.1 inches and 0.3 inches, and (iii) a groove width of between approximately 0.005 inches and 0.015 inches.

26. (Currently Amended) A method of manufacturing a tape roller of a guide assembly for a tape drive, the method comprising the steps of:

providing a rotatable roller having a circumference and a perimeter surface; and

forming a groove into the perimeter surface so that the groove <u>is tapered</u> to have has a groove <u>length</u> depth that <u>varies in a direction along a length of the groove</u> is less than the circumference.

- 27. (Original) The method of claim 26 wherein the step of forming a groove includes forming a plurality of spaced-apart grooves into the perimeter surface so that each groove has a groove length that is less than the circumference.
- 28. (Original) A method of manufacturing a roller for use in a guide assembly of a tape drive, the method comprising the steps of:

providing a roller portion having a circumference and a perimeter surface; and

forming a groove into the perimeter surface so that the groove has a groove depth that varies along the length of the groove.

- 29. (Original) The method of claim 28 wherein the step of forming a groove includes forming a plurality of spaced-apart grooves into the perimeter surface so each groove has a groove depth that varies along the length of the groove.
- 30. (Previously Presented) A method of reducing lateral tape motion of a storage tape adapted for use in a tape drive, the method comprising the step of:

providing a tape drive having a guide assembly that includes a rotatable first roller having a perimeter surface, a circumference, and a groove disposed into the perimeter surface, the groove having a groove length that is less than the circumference.

- 31. (Original) The method of claim 30 including the step of rotatably mounting the first roller on a roller mount so that the storage tape passes over at least a portion of the perimeter surface of the first roller during operation of the tape drive.
- 32. (Original) The method of claim 31 including the step of providing a second roller having a perimeter surface, a circumference, and a groove disposed into the perimeter surface, the groove having a groove length that is less than the circumference; wherein the storage tape passes over at least a portion of the perimeter

surface of the second roller during operation of the tape drive.

33. (Previously Presented) A guide assembly for reducing lateral movement of a storage tape in a tape drive, the guide assembly comprising:

a first roller including a perimeter surface, a circumference, a longitudinal axis and a plurality of spaced apart grooves disposed into the perimeter surface, each of the grooves having a groove length that is less than the circumference and at least one of the grooves having a groove length of between approximately 0.01 inches and 1.5 inches.

34. (Previously Presented) A guide assembly for reducing lateral movement of a storage tape in a tape drive, the guide assembly comprising:

a first roller including a perimeter surface, a circumference, a longitudinal axis and a groove disposed into the perimeter surface, the groove having a groove length that is less than the circumference, and a groove depth that varies between approximately zero inches and 0.02 inches along the length of the groove.

- 35. (Previously Presented) The guide assembly of claim 1 wherein the percentage of the perimeter surface onto which grooves are disposed is greater than 30 percent.
- 36. (New) A method of manufacturing a tape roller of a tape drive, the method comprising the step of:

rotatably mounting a tape roller to a drive housing of the tape drive, the tape roller including a groove having a groove depth that varies over a length of the groove.

37. (New) The method of claim 36 wherein the groove has a groove bottom that is substantially linear in a direction along a circumference of the tape roller.

38. (New) The method of claim 37 wherein a portion of the groove bottom is substantially planar.